

Potential Hazardous Waste Site
Preliminary Assessment

Bendix Autolite Corporation
1600 North Union Road
Fostoria, Ohio 44830
OHDO66046228

PR 85/89
Jm/alt
11/10/84

US EPA RECORDS CENTER REGION 5



483710

The Bendix Autolite Corporation, now named Allied Automotive, is located in north Fostoria, Seneca County, Ohio. Bordering the plant to the northeast is Norton Manufacturing, and to the southwest is the Roppe Rubber Company. There are residential homes to the west and north of the facility.

The Bendix Corporation manufactures spark plugs and oxygen sensors for passenger automobiles, trucks and small engines. The spark plugs are manufactured from raw ceramic powders and steel bar stock. The ceramic material is formed, fired and glazed. The bar stock is machined, coated and washed. The ceramic and metal parts and other required materials are then assembled to form the final product. Processes which generate wastewaters include black oxide coating, zinc mechanical plating, machining, cleaning, assembly and testing operations. The wastewater from these operations are regulated by the U.S. EPA Electroplating and Metal Finishing Standards.

Wastewater discharges to the City of Fostoria sanitary sewer system through three outfalls (001, 002, 003). Compliance violations have been reported in the past. They have exceeded the maximum limitations for total zinc, total metals and total toxic organics. The Ohio EPA warned Bendix that failure to comply with the effluent limitations may be cause for enforcement action.

The facility lies above a relatively thin layer of glacial till (0-10 feet thick). Below the clayey till is Niagara limestone which is greater than 400 feet thick. This limestone is the areas' major aquifer and may yield as much as 100 gallons per minute of potable water. Residents outside the city limits rely on this water for drinking. This water is also blended with reservoir surface water which is used by the entire City of Fostoria.

Sampling of industrial and residential wells in this north Fostoria area has shown trichloroethylene (TCE) and other volatile organics in the groundwater. Bendix uses TCE as a solvent in its cleaning processes. Several residents near the site are currently using bottled water for drinking. It has not been confirmed if Bendix is the source or sole source of contamination. A consent agreement between Bendix, several other companies and the Ohio EPA is being finalized in order to complete a potentially responsible party remedial investigation feasibility study.

Bendix has been determined to be a hazardous waste generator only. All hazardous wastes are transported off-site to an EPA approved facility for disposal treatment. There is no on-site treatment, storage (beyond 90 days) or disposal. All spent solvents in the past and present have been recycled to a refiner. In the past solvents were gathered in large above ground tanks, as well as drums for shipment. Currently, only drums are used for containment. A review of past solvent handling practices has disclosed no documented spills. However, prior to the early 1970's, solvent handling practices are unknown. An emergency and safety contingency plan exists today.

Bendix Autolite Corp.

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A higher FIT recommendation would be made in consideration of the population targets and the TCE problem. But because of the ongoing high priority Ohio EPA has given to the State investigation and the RI/FS, a low priority is given for FIT activities at this time.

1495S-17,18



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

OH D980612212

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

BENDIX AUTOLITE CORPORATION
AKA ALLIED AUTOMOTIVE

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

1600 NORTH UNION STREET

03 CITY

FOSTORIA

04 STATE

OH

05 ZIP CODE

44830

06 COUNTY

SENECA

07 COUNTY CODE

147

08 CONG DIST

5

09 COORDINATES LATITUDE

41 10 24 N

LONGITUDE

83 25 00 W

FOSTORIA QUADRANGLE

10 DIRECTIONS TO SITE (Starting from nearest public road)

FROM FOSTORIA TAKE COUNTY LINE STREET (RT. 23) NORTH TO
STEARNS ROAD. TURN RIGHT (EAST). PLANT ENTRANCE ABOUT
500 FEET ON THE RIGHT. PLANT IS SOUTH OF STEARNS ROAD.

III. RESPONSIBLE PARTIES

01 OWNER (If known)

MARK W. SEMEYN

02 STREET (Business, mailing, residential)

1600 NORTH UNION

03 CITY

FOSTORIA

04 STATE

OH

05 ZIP CODE

44830

06 TELEPHONE NUMBER

(419) 435-6655

07 OPERATOR (If known and different from owner)

SAME AS ABOVE

08 STREET (Business, mailing, residential)

..

09 CITY

..

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

()

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL:

(Agency name)

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: MONTH DAY YEAR

☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES

DATE

6, 15, 83

☐ NO

MONTH DAY YEAR

BY (Check all that apply)

☒ A. EPA

☐ B. EPA CONTRACTOR

☒ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☒ A. ACTIVE

☐ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

~ 1960

PRESENT

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

SOLVENTS (TOXIC/FLAMMABLE)

OTHER ORGANIC CHEMICALS (TOXIC/PERSISTANT/SOLUBLE)

BASES (TOXIC/CORROSIVE)

HEAVY METALS (TOXIC/PERSISTANT)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

GROUNDWATER (ENVIRONMENT/POPULATION)

SURFACE WATER (ENVIRONMENT/POPULATION)

AIR (ENVIRONMENT/POPULATION)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☐ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

PAUL KALTER

02 OF (Agency/Organization)

OHIO EPA NWDO

03 TELEPHONE NUMBER

(419) 352-8461

04 PERSON RESPONSIBLE FOR ASSESSMENT

TIMOTHY J. MALEY

05 AGENCY

U.S. EPA

06 ORGANIZATION

Ecology & Environment
REGION II FIT

07 TELEPHONE NUMBER

(312) 663-9415

08 DATE

8, 28, 85
MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH DO66046228

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) <input checked="" type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER (Specify) _____ <input type="checkbox"/> E. SLURRY <input type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) TONS _____ CUBIC YARDS _____ NO. OF DRUMS <u>UNKNOWN</u>	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A. TOXIC <input checked="" type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT <input checked="" type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input checked="" type="checkbox"/> G. FLAMMABLE <input checked="" type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Annual Amt.		
OLW	OILY WASTE			
SOL	SOLVENTS	21000 +	GALLONS	All wastes are disposed of off-site. Gathered in large above ground tanks as well as drums for shipment to be refined.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	4200 +	GALLONS	
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES	55	GALLONS	"
MES	HEAVY METALS	UNKNOWN	UNKNOWN	MAY BE PRESENT IN WASTE WATER

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,1,1 TRICHLOROETHANE	71-55-6	OFF-SITE DISPOSAL	UNKNOWN	
SOL	METHYL ETHYL KETONE	78-93-3	" "	"	
SOL	TRICHLOROETHYLENE	79-01-6	NO LONGER USED	"	
SOL	BENZENE (TEST FUEL)	71-43-2	UNKNOWN	"	
OCC	CYANIDE (MIXTURE-DRY)	-	OFF-SITE DISPOSAL	"	
BAS	SODIUM HYDROXIDE	1310-73-2	" "	"	
SOL	140 ASHLAND CHEMICAL SOLVENT	-	UNKNOWN	"	
SOL	SAPTY CLEAN SOLVENT (MINERAL SPIRITS)	-	"	"	
OCC	PCB (I.D. No. Unknown)	-	"	"	
MES	COPPER	7440-50-8	"	"	
MES	NICKLE		"	"	
MES	SILVER	7440-22-4	"	"	
MES	ZINC	7440-66-6	"	"	
	Corrosive and Ignitable solid wastes, not listed as hazardous waste, generated at site (stored in containers)				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SEE ATTACHED SOURCES OF INFORMATION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH D066046228

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 18592

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Trichloroethane (TCE) has been detected in on-site monitoring wells and off-site residential wells. Bendix does use TCE in its manufacturing process, however they have not been confirmed as the source of contamination. No spills have been documented to date. Residents directly north of site rely on ground-water for drinking.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 16000

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

No observed release to surface water. Since water from city well field (which could be contaminated with TCE) is blended with reservoir water, the surface water could also be contaminated with TCE. One documented compliance violation reported exceedences of total zinc and total metals. These were detected in their electrolysis pretreatment outfalls 001 & 002.

01 ☒ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: 20283

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

No documented problems to date. The plant has 7 boiler (coal burning) stacks and 12 operation process ventilation stacks (some which vent TCE vapors). Therefore air contamination possible if the emissions exceed permit limitations.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: 12271

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

No documented problems to date. Ignitable wastes are present as well as flammable solvents. The plant does have a complete contingency plan in case of an emergency. Therefore the potential is small.

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: 5911

02 ☐ OBSERVED (DATE:)

☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Direct contact potential is unlikely because of a good security system which includes a 24 hr. surveillance, controlled entry, and a barrier around the facility.

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 10 + (acres)

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Samples have been taken on-site but the results are not available. Presently storage and disposal procedures are strictly regulated. Prior to 1970 hazardous waste handling is unknown. Therefore the soil on site may already be contaminated.

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 18592

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

See parts A & B above.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 1500

02 ☐ OBSERVED (DATE:)

☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Worker exposure/injury is unlikely since plant personnel are trained and are aware of hazardous material they are working with. A contingency plan will be used in case of an accident. There is always the possibility of carelessness.

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 20283

02 ☐ OBSERVED (DATE:)

☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

See part C & E above



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

01 OH 02 D066046228

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

No documented problems to date. The hazardous materials are strictly regulated so spills are unlikely. The discharge violations could cause contamination to surrounding flora.

01 ☐ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

No documented problems to date. Site well secured from surrounding fauna.

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Contamination of food chain unlikely since waste is not moving off-site. The one incident of discharge violation may send metals into nearby stream thus possibly contaminating fish.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

(Spills/runoffs/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

No documented problems to date. All hazardous waste properly stored and disposed of.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

No reported damage to off-site property.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Contamination from compliance violations may have contaminated outfall pipes and sewers.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

No illegal/unauthorized dumping reported. Site access is restricted

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 20283 (4 mile radius)

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

See attached sources of information.

PA DOCUMENTATION SHEET

SITE Bendix Autolite Corp.IDENTIFICATION NUMBER ~~01 DD66046228~~
01 DD66046228

SOURCE NUMBER	DESCRIPTION OF SOURCE
1A, 1B, 1C, 1D	<p>1A) QUAD NAME <u>Bascom, Ohio</u> 1B) QUAD NAME <u>Fostoria, Ohio</u> SIZE: <u>7.5</u> OF 15 SIZE: <u>7.5</u> OF 15 YEAR <u>1960</u> re: <u>1972</u> YEAR <u>1960</u> re: <u>1972</u></p> <p>1C) QUAD NAME <u>Alvada, Ohio</u> 1D) QUAD NAME <u></u> SIZE: <u>7.5</u> OF 15 SIZE: <u>7.5</u> OF 15 YEAR <u>1960</u> YEAR <u></u></p>
2	EPA General Information Form 1 and 3
	Signed: Charles F. Stecker (President General Manager) 11-17-80
	complete with location map.
3	U.S. EPA Notification of Hazardous Waste Site
	Signed: Mark W. Semeyn 11-78-84
	Cover letter from Autolite to U.S. EPA 11-27-84
4	Ohio EPA Evaluation Report / Municipal Water Info.
	Division of Public Water Supply - Fostoria 7-30-85
5	Bendix-Autolite Corp. Baseline Monitoring Report
	Information on Outfalls - Chester Engineers 5-8-84
6	Ohio EPA Compliance Report Violations 2-20-85
	from: Chester Engineers to John L. Holden (Bendix)
7	RCRA Interim Status Inspection Form
	6-15-83
8	Industrial Retreatment Program Industrial
	Waste Survey - Fostoria, Ohio
	Aqua Tech - Environmental Consultants

PA DOCUMENTATION SHEET

SITE Bendix Autolite CorpIDENTIFICATION NUMBER ~~OD 666046 228~~
OD 666046 228

SOURCE NUMBER	DESCRIPTION OF SOURCE
9	Rand McNally Commercial Reference Map: Guide Ohio - Seneca Co - Fostoria population
10	Harris 1985 Ohio Industrial Directory Allied Autolite (Bendix) plant information
11	Inventory of Municipal Water Supply Systems ODNR 1977 Division of Water Seneca Co - Fostoria
12	Ground-Water Resources Map of Seneca Co. by James J. Schmidt 1982
13	Ground-water Flow Map in the Lockport Dolomite 1-30-85
14	Ohio Listed Species U.S. Fish and Wildlife Service
15	Ohio EPA Letter to John L. Holden (Bendix Corp) 4-2-85 Re: Sample well locations
16	Newspaper article about TCE problem in Fostoria 1-3-85 "Residents want more data on TCE testing"
17	Letter from Resident Patrick R. Magenheimer Published in The Review-Times, Fostoria "In our Mailbag"
18	Article in 12-9-84 "Bottled Water Supplied After Pollution is Found"
19	Letter from Department of Public Health 12-3-84 Re: Advisory to residents about well water

PA DOCUMENTATION SHEET

SITE

Bondix Autolite Corp.

IDENTIFICATION NUMBER

013416-00013
OH DO 66046 228

SOURCE NUMBER	DESCRIPTION OF SOURCE
20	Article in Newspaper, Advertiser Tribune 1-14-85 Tiffin Ohio "Fostoria seek annual TCE test"
21	Fostoria Industrial Surveys - Seneca Co. From Kate Wilson (geologist OEPA) to Bondix Corp. Questionnaire with waste information
22	Conversation with Kate Wilson OEPA 8-27-85 Re: Geology of Site area (Tm)(EiE)
23	Phone Conversation with Bernard Spyker 8-27-85 Re: Municipal Water Distribution (Tm)(EiE)
24	Well logs of Site area Fostoria Seneca Co. OEPA File
25	Population Calculation Sheet 8-28-85 Tim Maley (EiE)
26	Autolite Hazardous Waste Management Contingency Plan and Emergency Response
27	Treatment, Storage and Disposal Facility General Info. 9-29-85 OEPA
	-END-

ALL HOMES NORTH OF
THIS ROAD HAVE WELL WATER

FOSTORIA, OHIO
7.5 MINUTE SERIES

41°10'24"N
83°25'00"W

● = DRINKING WATER WELLS

WOOD CO
HANCOCK CO

DRUM STORAGE AREA
BENDIX AUTOLITE CORP

Lake Lamberjack

NORFOLK AND